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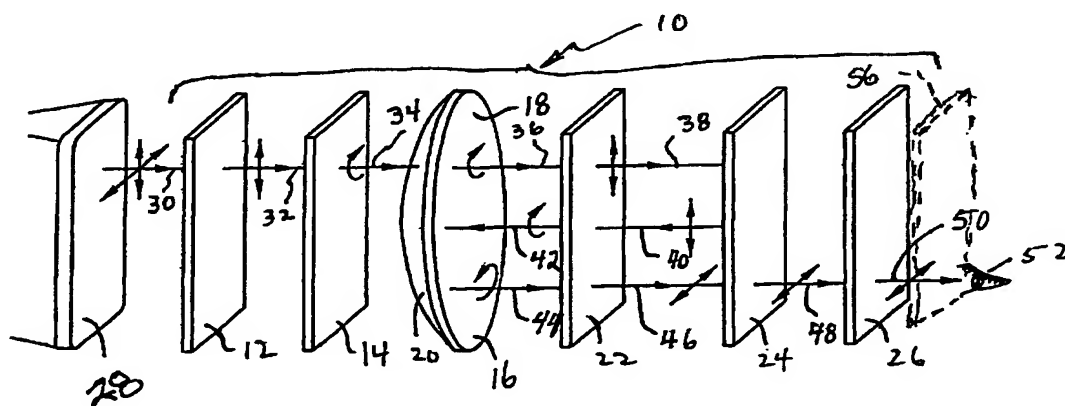
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(54) Title: **IMPROVED COLLIMATING OPTICAL MEMBER FOR REAL WORLD SIMULATION**



(57) Abstract: A collimating image-forming apparatus comprising a first linear polarizer is disclosed. A first quarterwave plate (14) is disposed adjacent the first polarizer (12) and has its fast and slow axes at substantially 45° to the plane of polarization of the first polarizer. The apparatus further comprises a beam-splitting curved mirror (16) having a convex surface adjacent the first polarizer and facing towards the first quarter-wave plate, a second quarter-wave plate (22) adjacent the concave side of the curved mirror, the second quarterwave plate having its fast and slow axes oriented with respect to the corresponding axes of the first quarter-wave plate at angles substantially equal to a first integral multiple of 90°, and a reflective-transmissive polarizing member (24) adjacent the second quarter-wave plate. A second linear polarizer (26) is adjacent the reflective-transmissive polarizing member, the second linear polarizer having its plane of polarization oriented with respect to the plane of polarization of the first linear polarizer at an angle substantially equal to a second integral multiple of 90°, both of the multiples being even or both being odd.



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